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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/086,598	02/28/2002	Dale R. Langner	1528.025US1	1965

7590

04/11/2003

Devon A. Rolf
c/o Garmin International, Inc.
1200 East 151st Street
Olathe, KS 66062

EXAMINER

SWARTHOUT, BRENT

ART UNIT

PAPER NUMBER

2632

DATE MAILED: 04/11/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

101086,598

Applicant(s)

Langner et al.

Examiner

Brent A Swarthout

Art Unit

2632

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

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DETAILED ACTION

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Snyder.

Snyder discloses a cockpit display with first upper horizontal region including navigation and communication settings, as well as autopilot, and lower second region delineating plural sub-displays (Fig. 4).

Regarding claims 2 and 4-6, Snyder discloses flight control settings such as heading, pitch and NAV1 and VOR labels.

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 7-13 and 21, 23 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Snyder in view of Gordon.

Snyder discloses a cockpit display as set forth above, except for controls being at the bezel.

Gordon teaches it is well known in the cockpit display art to affix controls to the display bezel (Fig. 3).

It would have been obvious to use bezel controls in conjunction with displayed elements as disclosed by Snyder, in order that a pilot could have had controls close to the display. Use of a multifunctional display as taught by Gordon would have been obvious in order to conserve cockpit space.

Regarding claim 11, choosing different colors for settings would have been obvious, to allow particular settings to be more easily recognized at a glance.

3. Claims 14-20 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Snyder in view of Bollard et al.

Snyder teaches desirability of cockpit display with first and second regions as set forth above, except for a second like display.

Bollard teaches desirability in a cockpit of having two like displays 12/14 for the pilot and copilot (Fig. 2).

It would have been obvious to use plural displays as taught by Bollard showing the particular display elements taught by Snyder, in order that each pilot would have had access to a display, and redundancy in case of failure of a display.

Regarding claim 15, Bollard shows well known concept of placing controls 12B on a bezel (Fig. 2).

Regarding claim 16, Snyder discloses all settings except for terrain, traffic, weather and transponder. All such settings are well known in the art for display on a cockpit, and use of such on a display as disclosed by Snyder would have been obvious, merely depending on where it was desired by a pilot to display such elements.

4. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Snyder in view of Devino.

Devino teaches desirability of a cockpit display housing to have flight sensors on the rear side of the display and bezel (Fig.).

It would have been obvious to have sensors included on the back side of a display, in order to allow the unit to be installed more easily, and permit the display to function even if primary sensors were defective.

3. 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Pauly, Ching and Briffe disclose cockpit display devices.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brent Swarthout whose telephone number is (703) 305-4383. The examiner can normally be reached on M-F from 6:30am to 4:00pm.

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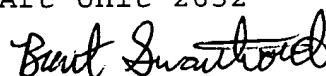
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Wu, can be reached on (703) 308-6730. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

BS/ayc

April 7, 2003

Exr. Brent Swarthout
Typist April Cheeves
Art Unit 2632



**BRENT A. SWARTHOUT
PRIMARY EXAMINER**